

PROGRAMME

DAY 1 - 4 May 2021 - PLENARY SESSIONS		
13:45	Welcome and Introduction	B. Valeske, M. Rabung (Fraunhofer) A. Schumm (EDF)
14:00 – 14:20	General aspects of reactor safety in the context of LTO in Germany	H. Möller (GRS)
14:20 – 14:40	General aspects of reactor safety in the context of LTO in France	T. Sollier (IRSN)
14:40 – 14:55	ADVISE global presentation	A. Schumm (EDF)
14:55 – 15:10	NOMAD global presentation	M. Rabung (Fraunhofer)
15:10 – 15:30	<i>Coffee break</i>	
15:30 – 16:00	Microstructural and mechanical property characterization of primary loop materials using NDE	J. Wall (EPRI)
16:00 – 16:30	Physical principles of NDE methods for characterization of embrittlement	K. Szielasko (Fraunhofer)
16:30 – 17:00	Eddy Current and Ultrasound Modelling Principles	E. Demaldent (CEA List)
17:00 – 17:15	Q/A	All
17:15 – 17:30	EURATOM Research and Training Programme 2021-2025	P. Manolatos, K. Janatkova (EC)



DAY 2 - 5 May 2021 - TECHNICAL SESSIONS

	Microstructure characterization (1/2) Chairperson: M. Lowe (ICL)	Defect detection and characterization (1/2) Chairperson: P. Calmon (CEA)	Non-metallic materials (1/2) Chairperson: R. Tschuncky (Fraunhofer)
09:00 – 09:05	Welcome	Welcome	Welcome
09:05 – 09:25	Effective Orientation Mapping of Locally Anisotropic Media from Ultrasonic Phased Array Data K. Tant (University of Strathclyde)	Weld reconstruction M. Kalkowski (ICL)	Long term monitoring of concrete structure using innovative NDT and SHM approaches: NDT-CE 4.0 E. Niederleithinger (BAM)
09:25 – 09:55	Characterization of residual stresses by means of ultrasonics I. Veile (Fraunhofer)	Transducers JF. Saillant (Framatome), V. Samaitis (KTU)	Non-Destructive Testing methods in concrete structures for the life extension of Nuclear Power Plants A. Sillero (Tecnatom)
09:55 – 10:15	NDE characterization of embrittlement by means of magnetic methods A. Gasparics (EK)	Model based defect characterization A. Velichko (UoB), R. Miorelli (CEA List)	Non-destructive testing of concrete structures – Processes, Technique Development and Machine Learning D. Algernon (SVTI)
10:15 – 10:35	Non-destructive evaluation of RPV embrittlement by means of the Thermoelectric Power Method M. Niffenegger (PSI)	Phased array imaging of complex materials S. Robert (CEA List)	
10:35 – 11:00	<i>Coffee break</i>		



DAY 2 - 5 May 2021 - TECHNICAL SESSIONS			
	Microstructure characterization (2/2) Chairperson: A. Gasparics (EK)	Defect detection and characterization (2/2) Chairperson: A. Schumm (EDF)	Non-metallic materials (2/2) Chairperson: R. Tschuncky (Fraunhofer)
11:00 – 11:20	Fast electromagnetic models for simulation of material characterization applications A. Skarlatos (CEA)	Comparison of FMC-TFM imaging and PWI imaging by using TRL transducers and linear transducers for coarse-grained materials K. Sy (Eddyfi)	Non-destructive characterization of polymers with terahertz systems C. Stumm (Fraunhofer)
11:20 – 11:40	Microstructure- and stress-independent materials characterization in reactor safety research C. Zimmer (Fraunhofer)	Research Project PIONIC - Program for Investigation of NDE by International Collaboration S. Feistkorn (SVTI)	Ultrasound as a non-destructive tool to estimate polymer embrittlement J. Rinta-aho (VTT)
11:40 – 12:00	CASS Microstructure reconstruction V. Samaitis (KTU)	Inspection and monitoring of pipelines for defects using ultrasonic guided waves M. Lowe (ICL)	
12:00 – 12:20	Machine learning and multimethod-NDE for estimating neutron-induced embrittlement J. Rinta-aho (VTT)	Passive Guided Wave Tomography for the monitoring of corrosion in pipes B. Chapuis (CEA List)	
12:20 – 12:50	Concluding remarks and perspectives		

